

SERINE-PROTEASE INHIBITOR · PROTEINS & ENZYMES

Unwanted proteolysis in your sample?

Shut it down.

Aprotinin is a 58-amino-acid basic polypeptide (BPTI) that **reversibly inhibits a broad panel of serine proteases** — trypsin, plasmin, urokinase, kallikrein, chymotrypsin, elastase and Factor XIIa — forming **stable enzyme-inhibitor complexes**. 5-ENZYME Aprotinin is a lyophilized, research-grade preparation for blocking undesired proteolysis, isolating proteins, and quenching fibrinolysis in vitro. It also **suppresses kallikrein and plasmin interference** in chromogenic assays for antithrombin III, heparin, α_2 -macroglobulin, Factor Xa and thrombin.

PROTEASE INHIBITOR · 5-DIAGNOSTICS

5-ENZYME Aprotinin

Polyvalent serine-protease inhibitor · BPTI

- **Reversibly inhibits a broad panel** — trypsin, plasmin, urokinase, kallikrein, chymotrypsin, elastase and Factor XIIa.
- A **58-amino-acid basic polypeptide** (BPTI, MW 6512) that forms **stable complexes** with its target enzymes.
- Blocks **undesired proteolytic activity** in laboratory assays and **quenches fibrinolysis** in vitro.
- Supports **protein isolation** and solid-phase removal of reactive proteases.
- **Lyophilized powder** — reconstitute with 5 mL distilled water for ≈ 50 mg/mL.

5D-62106 · Lyophilized · RUO

250 mg

WHY APROTININ

One well-characterized inhibitor covers **many serine proteases at once** — trypsin, plasmin, kallikrein, urokinase and more — instead of stocking a separate inhibitor for each.

Inhibition is **reversible** and forms **stable enzyme-inhibitor complexes**, so behavior is predictable across assay and purification workflows.

Stable at 2–8 °C up to the labeled expiry; up to **6 months below –20 °C**.

WHERE APROTININ IS USED

Protein isolation & purification

Solid-phase protease removal

Blocking proteolysis in assays

Fibrinolysis inhibition in vitro

Trypsin / chymotrypsin control

Kallikrein-kinin research

Plasmin / urokinase studies

Kallikrein / plasmin interference

AT-III · heparin · FXa assays

COMPLETE THE 5-DIAGNOSTICS ENZYME BENCH

5-ENZYME Thrombin

Human — purified thrombin for clotting & substrate work (Ref. 5D-60230).

5-ENZYME Thrombin

Bovine — purified thrombin, alternative species (Ref. 5D-60237).

5-ENZYME Convulxin

Platelet agonist — snake-venom C-type lectin for GPVI research (Ref. 5D-67111).

Regulatory: 5-ENZYME Aprotinin (5D-62106) is a research-grade reagent — **For Research Use Only, not for use in diagnostic or therapeutic procedures**. Supplied as a lyophilized powder (250 mg); reconstitute with 5 mL distilled water for ≈ 50 mg/mL. Stable at 2–8 °C up to the expiration date printed on the label, and up to 6 months stored below –20 °C. Manufactured by 5-Diagnostics and distributed by Aniara Diagnostica; the user establishes and validates assay conditions and protease specificity. Pack sizes and pricing on request. © 2026 Aniara Diagnostica, Inc.